

SUMMARY OF REQUIREMENTS

CLASS VI OPERATING AND REPORTING CONDITIONS

Elk Hills 26R Storage Project

Facility Information

Facility name: Elk Hills 26R Storage Project
353XC-35R

Well location: Elk Hills Oil Field, Kern County, CA
35.32802963 / -119.5449982

Table 1. Injection Well Operating Conditions

PARAMETER/CONDITION	LIMITATION or PERMITTED VALUE
Maximum Injection Pressure - Surface	1997 psi
Maximum Injection Pressure - Bottomhole	4180 psi
Annulus Pressure	3314 psi
Annulus Pressure/Tubing Differential	551 psi
Maximum CO ₂ Injection Rate	25 mmscfpd

There will be continuous monitoring of injection pressure, rate and annulus pressure for the injector, as described in the well Construction, Operation and Plugging details (COP) document for 353XC-35R.

The maximum injection pressure, which serves to prevent confining-formation fracturing, was determined: using the fracture gradient of 0.701psi/ft obtained from Fracture stimulation data obtained from well 388-26R in the 26R reservoir multiplied by 0.9, per 40 CFR 146.88(a).

Routine Shutdown Procedure

For injection shutdowns occurring under routine conditions (e.g., for well workovers), the permittee will reduce CO₂ injection at a rate of 165 tons per day over a 6 day period to ensure protection of health, safety, and the environment. This procedure applies to routine shutdowns and to “gradual shutdowns” described in the Emergency and Remedial Response plan. (Procedures that address immediately shutting in the well are in the Emergency and Remedial Response Plan of this permit.)

Table 2. Class VI Injection Well Reporting Requirements

ACTIVITY	REPORTING REQUIREMENTS
CO ₂ stream characterization	Semi-annually
Injection pressure, injection rate, injection volume, pressure on the annulus, and annulus fluid level	Semi-annually
Corrosion monitoring	Semi-annually
External MITs	Within 30 days of completion of test
Pressure fall-off testing	In the next semi-annual report

Note: All testing and monitoring frequencies and methodologies are included in the Testing and Monitoring Plan of this permit.

Table 3. Class VI Project Reporting Requirements

ACTIVITY	REPORTING REQUIREMENTS
Groundwater quality monitoring	Semi-annually
Plume and pressure front tracking	In the next semi-annual report
Monitoring well MITs	Within 30 days of completion of test
Financial responsibility updates pursuant to H.2 and H.3(a) of this permit	Within 60 days of update

Note: All testing and monitoring frequencies and methodologies are included in the Testing and Monitoring Plan of this permit.